ARIB OMIARID SARMED OFFERE SERVE

10 ALL 10 WHOM THESE PRESENTS SHATE COME:

Rijk Zwaan Zaadteelt En Zaadhandel, BU

Winereas, there has been presented to the

Эфсьи съдавной съд грабануданнось

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of accentagen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to extude others from selling the variety, or offering it for sale, or reproducing it, importing it, or exporting it, or using it in producing a hybrid or different ty therefrom, to the extent provided by the Plant Variety Protection Act 1,1542, as amended, 7 u.s.c. 2321 et seq.)

CAULIFLOWER

'Silver Star'

In Testimony Winexeot, I have hereunlo set my hand and caused the seal of the Plant Bariety Protection Office to be affixed at the City of Washington this 18th day of December in the year of our Lord one thousand nine hundred and eighty.

Attest.

No.

Stant Variety Protection Office Grain Division

	AGRICULTURAL MARK LIVESTOCK, POULTRY, GRA	NT OF AGRICULTUR CETING SERVICE IN & SEED DIVISION			FORM APPROVED OMB NO. 40-R3822
	PLICATION FOR PLANT VARIE				int variety protection may impleted application form J.S.C. 553).
1a,	TEMPORARY DESIGNATION OF	1b. VARIETY NAM	E Silver Star	FOR OFFICI	AL USE ONLY
	Type 165	PV NUMBER		000004	
2.	KIND NAME	3. GENUS AND SPE	CIES NAME	FILING DATE	TIME A.M.
	Cauliflower	Brassica Ol	the state of the s	10-29-79 FEE RECEIVED	4:00 (P.M.)
4.	FAMILY NAME (BOTANICAL)	5. DATE OF DETE	MINATION	\$ 500.00	7-19-79
	Crucifaer	llth Man	uary 197 5	\$	· ·
6.	NAME OF APPLICANT(S)	1 0 1 1	t and No. or R.F.D. No.,	- -	8. TELEPHONE AREA
	Rijk Zwaan Zaadteelt	Code) P.O.E	ox 40 2678	ZG De Lier	CODE AND NUMBER
	en Zaadhandel BV	' '.		Holland	01745-3941
9,	IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Corporation, partnersh	RSON, FORM OF ip, association, etc.)	DATE OF INCOR	A 4	11. DATE OF INCOR- PORATION
	corporation		Holland 18-	-8-1953	18-8-1953
13.	CHECK BOX BELOW FOR EACH ATTACH	·			
			N7	ea of the photographic	. Do-44* A -63
	13A. Exhibit A, Origin and Bree		variety (See Section 3	02 of the Plant Variety	y Protection Act.)
	x 13B. Exhibit B, Novelty Statem	ent.			
	x 13C. Exhibit C, Objective Descr	iption of the Variety	(Request form from	Plant Variety Protect	ion Office.)
•	13D. Exhibit D, Additional Des	cription of the Varie	•••		
			Ly.		
14a,	DOES THE APPLICANT(S) SPECIFY THAT SEED? (See Section 83(a). (If "Yes," answer		IETY BE SOLD BY VAI	RIETY NAME ONLY AS NO	A CLASS OF CERTIFIED
		er 14B and 14C below., T THIS VARIETY BE	IETY BE SOLD BY VAI		
	DOES THE APPLICANT(S) SPECIFY THALLIMITED AS TO NUMBER OF GENERATIONS	er 14B and 14C below., T THIS VARIETY BE	IETY BE SOLD BY VAI	NO B, HOW MANY GENER	
14b.	DOES THE APPLICANT(S) SPECIFY THALLIMITED AS TO NUMBER OF GENERATION TO THE APPLICANT(S) FILE FOR PROTRAME of countries and dates.)	er 14B and 14C below., T THIS VARIETY BE IONS? appicable ECTION OF THIS VA	IETY BE SOLD BY VAID YES 14c. IF "YES," TO 14 TION BEYOND BEYOND FOUNDATION RIETY IN OTHER COU	NO B, HOW MANY GENER BREEDER SEED? REGISTERED	ATIONS OF PRODUC-
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INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

6461 8 g 130

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties:

 (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

dd

Re: Cauliflower Type 165



8000004

EXHIBIT A

184 801029

Origin and Breeding History of the variety:

- Silver Star

 1. Type 165 originated from a hand crossing in 1964 between own breeding material and white flowering variety Lukra.
- 2. Pure line selections were made on plant-type, maturity, uniformity and quality for 9 generations on trial fields in the Netherlands and Western Germany.

The genetic make-up of the variety was stabelized in the fifth generation. After that, production tests have been carried out under mass and line selection.

Type 165 appeared to be stable and uniform during the last 4 generations, both in our trials and official tests of N.A.K.G.

Within the limits of a crosspolinating cultivar <u>no</u> variants have been found.

B EXHIBIT \mathcal{B} Data Indicative of Novelty \mathcal{A}_{200}^{ℓ}

Cauliflower "Silver Star", Application No.

"Silver Star" most closely resembles "Snowball Y", but matures about 5 - 7 days later.

Statement

We herewith state that for all comparison, we have used the variety Snowball Y as this is the most similar variety.

However, as the differences in the way of growing habit are rather large, both varieties are used side by side in commercial fields on large scale in the same growing period.

Statement

The comparative variety Snowball Y and Elora Blanca are as well as nearly all cauliflower varieties yellow blooming.

This variety is genetic pure white blooming.

In the indicated maingrowing area California planting from first of Sylver for January, shows that this variety type 165 RZ was so selfrapping that tying was not necessary.

All other varieties like Snowball Y need tying.

EXHIBIT B

Botanical description of the variety

Silver Star

Cauliflower: type 165

Type 165 is a result of a crossing between own breeding material and the white flowering variety Lukra. It was developed in Holland and W. Germany.

In California it appears to be best adapted in harvesting period from May till September. In other areas it shows promising, but is still under research.

Silver How Because Type 165 originated from cross(es) between different phenotypes it does not belong to any particular group of varieties (such as the late Alpha-group etc.)

As far as most suitable harvest period is concerned, it can best be compared with Snowball Y. Differences are:

- type 165 has more erect and wavy foliage.
 type 165 has more of a dark blue-green foliage colour.
 type 165 is about 2-5 cm taller.
- curd diameter and depth are larger (c.g. 18 and 12 cm).
- curd is very tight more knobby and more dome shaped.
- Especially under relatively warm and dry conditions (more continental climates) it is better self-covering. Type 165 has less but larger heartleaves, that completely cover the curd and do not stand (or open) up under warm wheather conditions.
- It matures on average 1 week later than Snowball Y, in summer sowing a little less than a week.

FORM GR-470-30 (7-1-74)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782 OBJECTIVE DESCRIPTION OF VARIETY CAULIFLOWER

(Brassica olerace	a var, botrytis)
NAME OF APPLICANT(S)	VARIETY NAME OR TEMPORARY DESIGNATION
Rijk Zwaan Zaadteelt en Zaadhandel BV	Type 165 Silver Her go1029
ADDRESS (Street and No., or F.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY
P.O.Box 40 - 2678 ZG De Lier Holland	PVPO NUMBER 800004
Place the appropriate number that describes the varietal character of Place a zero in first box (e.s. 0 8 9 or 0 9) when number is e	this variety in the boxes below.
1. REGION OF ADAPTATION: (Where best adapted in the U.S.A.)	
1 = NORTHWEST 2 = NORTHCENTRAL 3 =	NORTHEAST 4 = SOUTHEAST 5 = SOUTHWEST
6 = MOST REGIONS	General (1996)
2. SEASON: (Main crop)	
1 = LATE FALL — EARLY WINTER 2 =	LATE WINTER - EARLY SPRING
3 = LATE SPRING — EARLY SUMMER 4 =	LATE SUMMER — EARLY FALL
3. MATURITY: (Days to 50% harvest)	CARROLES CARRES
3. MATURITY: (Days to 50% narvest)	Micros C. B. C
0 7 3 FROM TRANSPLANTS	1 6 NO. DAYS HARVESTING PERIOD
1 1 0 FROM DIRECT SEEDING	
	man file Mana
 If the first of the first of a first factor of a first factor of a first socialization and factor are a first factor of a fir	
4. PLANT HEIGHT: (At harvest)	The second secon
2 2 CM. FROM SOIL LINE TO TOP OF CURD	entre de la company de la comp
	1 = EARLY ERFURT 2 = SUPER SNOWBALL A
OR 2 CM. TALLER THAN	3 = SNOWBALL Y
CM. SHORTER THAN	4 = VEITCH AUTUMN GIANT 5 5 = OTHER (Specify) Autumn Giant Flora Blanc
	5 = OTHER (Specify) Autumn Giant Flora Bland
5. LEAVES: A BEAUTY OF THE SECOND STATE OF THE	V KRELHISTON NEW
TOTAL NUMBER	CM. AVERAGE LENGTH AT MID-POINT OF PLANT (Including Petiole)
District action of the control of th	3 CM. AVERAGE WIDTH AT MID-POINT OF PLANT
2 1 = STRAIGHT MARGINS 2 = WAVY MARGINS	2 = THICK VEINS
1 = MOSTLY SESSILE 2 = MOSTLY PETIOLATE	grand and the second of the se
The second secon	1 = UPRIGHT, EXPOSE CURD
1 = LIGHT GREEN 2 = MEDIUM GREEN (Snowball No. 10)	2 = INCURVED, PARTIALLY COVER CURD
3 = DARK GREEN 4 = BLUSH GREEN (November)	3 = COMPETELY COVER CURD (Self blanching)
6. CURD:	
1 0 CM DIAMETER	CM DEPTH

No. (NP4,758)

s a StateSow

6. CURD:	7.7.1.11000	8000004
1 = TIGHT 2 = LOOSE	3 SHAPE: 1 = FLAT 3 = DOME	2 = SEMI-DOME
2 1 = SMOOTH 2 = KNOBBY		
1 = BRIGHT WHITE 2 = CREAMY, DULL WHIT COLOR: 3 = PURPLE-GREEN	1 = NO LEAVES IN CURD	
7. DISEASE RESISTANCE: (0 = Not Tested; 1 = Susc., tible, 2 = Resistan	nt. Specify race if known)	i del
	-	
D BLACK SPOT	0 CLUBROOT	
O PHYTOPHTHORA ROOT ROT	WHITE BLISTER	and the second second
O BLACK ROT	воттом нот	Sign difference of the State of the second
O CERCOSPORELLA LEAF SPOT	O DOWNY MILDEW	and the strong of the first time and the second
O POWDERY MILDEW	O VERTICILLUM WILT	and the second s
D 3 BLACK LEG	O CAULIFLOWER MOSAIC	Leaning property of the control of
O RING SPOT	O TURNIP YELLOW MOSAIC	
O YELLOWS	WIRE STEM CASSE DE	South Andrews
OTHER (Specify)		
(apecyy)	A STATE OF THE STA	
8. OTHER RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)		
2 "BUTTONING"	2 "BLINDNESS"	
2 "RICEYNESS" Land Control of	2 "WHIPTAIL"	
O INSECT (Specify)	The Commence of the Commence o	
9. INDICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT S	SURMITTED.	·
CHARACTER VARIETY	CHARACTER 21. 3. 4	VARIETY *
MATURITY Snowball Y Imp.		tumn Giant Fl.Blanca
ADAPTATION 11	CURD SIZE	11
	€HRD SHAPE	and the second s
PLANT SIZE "" "I	CURD COLOR	19
REFERENCE: 1817 1918 1918 1918 1918 1918 1918 1918	er seet on the seets of the seed of the se	1
Nieuwhof, M. 1969. Cole Crope - World Crop Series, Leonard Hil	1.	en e
COMMENTS: Re; question 2: actually from Late spr	ing untill Tate fall	And the second of the second o
Ré; question 30 data from a febr/march	√	分型的数型数据
Re; question 9; <u>Caracter</u> .	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
This is a new variety	of a unique appearanc	e, without actual
comparison to varieties		
Special caracters are: 1. genetic pure white	Flowerth &	en e
2. very erect foliage.		OCT 2 9 1979

3. providing complete curd cover.

CERTIFICATE OF REGISTRATION

for a variety of the species: Cauliflower

De Raad voor het Kwekersrecht declares,

that on application no. G 3163

put in on

13th December 1976 at 24.00 o'clock

the hereafter described variety on 22nd May 1979

under rotationnumber

4804

and under the name

Star Light

is entered in het Nederlandse Rassenregister with note of granting of breedersright

in the name of

Rijk Zwaan

Zaadteelt en Zaadhandel B.V.

Postbus 40 De Lier

Wageningen, 6th June 1979.

De Raad voor het Kwekersrecht.

DESCRIPTION

Requesting authority: Raad voor het Kwekersrecht, Applicationnr.: G 3163

Wageningen.

Reporting authority: RIVRO, Wageningen.

Species:

Cauliflower

Provisional indication: Type 165 A

Name:

Star Light

A. Characteristics, mentioned in the UPOV-guidelines TG/45/3 (dated76.11.19)

<u>Characteristics</u>	Class and cod	de	Remarks	
1. Seedling: ant)whocyanin coloration	Present	9		
2. Seedling: color of cotyledon	Fairly dark green	3		
Plant: size (at time of harvest)	Large	7		
4. Outer stem: length	Medium	5		
5. Leaf: attitude	Erect-Semi-er	rect	1-2	
6. Leaf: size	Large	7		
7. Leaf: shape	Broad ellipti elliptic 2-			
8. Leaf: margin of base	Entire	1		
9. Leaf: wax	Medium	5		
10. Leaf: color(with wax if present)	Dark green 3- Blue-green	-5	Clearly blue-greene than Delira	
11.Leaf: torsion of the tip	Medium	5		
13. Leaf: blistering	Weak-medium	4		
12. Leaf: profile of upperside of blade	e Concave	1	Till somewhat flat	(2)
14. Leaf: creasing	Medium	5	Sometimes somewhat	less
15. Leaf: undulation of margin	Present	9		٠
16. Leaf: degree of undulation of marg	in Medium	5	Sometimes somewhat	stron- ger
17. Leaf: width of midrib	Medium-wide	6		
18. Leaf: length of petoile	Medium	5		
19. Curd: covering by inner leaves	Partly covere	d 2	Till freely covered	
20. Curd: size	Medium	5		٠.
21. Curd: shape in longitudinal section -	Transverse el Transverse br	,		
22. Curd: doming	Strong	7		4

	<u>Characteristics</u>	Class and code	<u>e</u>	Remarks
23.	Curd: color	white-ivory	1-2	Not covered!
24.	Curd: anthocyanin coloration	present	9	
25.	Curd: knobbling	medium coarse	6	
26.	Curd: texture	medium	5	Till somewhat coarse
27.	Curd: riceness	absent	1	
28.	Curd: firmness	solid	7	
29.	Flower: color	white	1	·

Description Cauliflower, page 2 (G 3163)

B. Differences with corresponding varieties.

- G. 3163 differs from:
- Delira, by the less stark erected leaves, the more blue-green leafcolor, less strong undulation of margin of the leaf, shorter length of petoile, less selfcovering and knobbling.
- Type 598 B (G 3162) by a larger plantsize, the somewhat more erected and larger leaves, the more blue-green leafcolor and less blistering of the leaves.

C. Further data.

G 3163 belongs to the group of middle-late varieties suitable for the summer- and early autumn culture. The maturitytime differs a little from those of Delira, at the utmost a few days later.

Designation of colour.

for the designation of colour we have used the R.H.S. colour chart.

Upperside of leave	189	Α
Bottomside of leave	191	Α
Upperside of vein	157	С
Bottomside of vein	144	В